Exhibit C Radiation Hazard Analysis

SeaTel GX60 and SeaTel 4012GX

Exhibit C – Analysis of Non-Ionizing Radiation

This report analyzes the non-ionizing radiation levels for the 1.0-meter and 0.65-meter earth stations included in this application. The analysis and calculations performed in this Annex comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01.

Bulletin No. 65 and the FCC R&O 96-326 specifies two Maximum Permissible Exposure (MPE) limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. These are described below:

- General Population/Uncontrolled environment MPE limit is 1 mW/cm². The General Population / Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less.
- Occupational/Controlled environment MPE limit is 5 mW/cm². The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less.

The analysis provided in this report determined the power flux density levels of the earth station in the 1) far-field, 2) near-field, 3) transition region, 4) region between the feed and main reflector surface, 5) at the main reflector surface, and 6) between the antenna edge and the ground.

Section A.1 – Calculations for the 1.0 m antenna

Input Parameter Antenna Diameter Antenna Transmit Gain Transmit Frequency Antenna Feed Flange Diameter Power Input to the Antenna	Value 1 47.1 30000 6 5	Units m dBi MHz Cm Watts	Symbol D G F D	
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Calculated Parameter	Value	Units	Symbol	Formula
Antenna Surface Area	0.7854	m²	A	$\pi D^2/4$
Area of Antenna Flange	28.2735	cm ²	A	$\pi d^2/4$
Antenna Efficiency	0.5197	Real	H	$g\lambda^2/(\pi^2D^2)$
Gain Factor	51286.1384	Real	G	10^(G/10)
Wavelength	0.0100	m	Λ	300/f
Antenna Field Distances				
Calculated Parameter	Value	Units	Symbol	Formula
Near-Field Distance	25	m	Rnf	$D^2/(4\lambda)$
Distance to Far-Field	60	m	Rff	$0.6D^{2}/\lambda$
Distance of Transition Range	25	m	Rt	Rt=Rnf

Power Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	1.3234	mW/cm ²	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	0.5669	mW/cm ²	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	1.3234	mW/cm ²	St	Snf*Rnf/Rt
Power Density at the Feed Flange	707.3762	mW/cm ²	Sfa	4P/a
Power Density at Main Reflector	2.5466	mW/cm ²	Ssurface	4P/A
Power Density between Reflector and Ground	0.6366	mW/cm^2	Sg	P/A
Section A.2 – Calculations for the 0.65 m anten	<u>na</u>			
Input Parameter	Value	Units	Symbol	
Antenna Diameter	0.65	m	D	
Antenna Transmit Gain	43.4	dBi	G	
Transmit Frequency	30000	MHz	f	
Antenna Feed Flange Diameter	6	cm	d	
Power Input to the Antenna	5	Watts	P	
Calculated Parameter	Value	Units	Cymbol	Formula
Antenna Surface Area	0.3318	m ²	Symbol	$\pi D^2/4$
	28.2735	cm ²	A	$\pi d^2/4$
Area of Antenna Flange	0.5247	real	a	
Antenna Efficiency Gain Factor	21877.6162	real	η	$g\lambda^2/(\pi^2D^2)$
	0.0100		$rac{ extsf{g}}{\lambda}$	10^(G/10) 300/f
Wavelength	0.0100	m	٨	300/1
Antenna Field Distances				
Calculated Parameter	Value	Units	Symbol	Formula
Near-Field Distance	10.5625	m	Rnf	$D^2/(4\lambda)$
Distance to Far-Field	25.35	m	Rff	$0.6D^2/\lambda$
Distance of Transition Range	10.5625	m	Rt	Rt=Rnf
Distance of Transition Range	10.5025	111	Ttt	IXI—IXIII
Power Flux Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	3.1625	mW/cm ²	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	1.3546	mW/cm ²	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	3.1625	mW/cm²	St	Snf*Rnf/Rt
Power Density at the Feed Flange	707.3762	mW/cm²	Sfa	4P/a
Power Density at Main Reflector	6.0273	mW/cm ²	Ssurface	4P/A
Power Density between Reflector and Ground	1.5068	mW/cm ²	Sg	P/A
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Section A.3 – Summary of Results

1.0 m Antenna

Region	Calculated	Limit Controlled	Limit Uncontrolled
	Power	Environment	Environment
	Density	$\leq 5 \text{ mW/cm}^2$	$\leq 1 \text{ mW/cm}^2$
	(mW/cm^2)		
Near Field	1.3234	meets limit	exceeds limit
Far Field	0.5669	meets limit	meets limit
Transition Region	1.3234	meets limit	exceeds limit
Feed Flange	707.3762	exceeds limit	exceeds limit
Main Reflector	2.5466	meets limit	exceeds limit
Between Reflector and Ground	0.6366	meets limit	meets limit

0.65 m Antenna

Region	Calculated	Limit Controlled	Limit Uncontrolled
	Power	Environment	Environment
	Density	$\leq 5 \text{ mW/cm}^2$	$\leq 1 \text{ mW/cm}^2$
	(mW/cm^2)		
Near Field	3.1625	meets limit	exceeds limit
Far Field	1.3546	meets limit	exceeds limit
Transition Region	3.1625	meets limit	exceeds limit
Feed Flange	707.3762	exceeds limit	exceeds limit
Main Reflector	6.0273	exceeds limit	exceeds limit
Between Reflector and Ground	1.5068	meets limit	exceeds limit

As summarized in the above tables the 1.0 m and 0.65 m antennas meet the FCC's MPE levels for controlled environments except for at the feed flange for both antennas as well as at the main reflector for 0.65 m antenna. Since the antennas will be enclosed within a radome, these areas will not be accessible while the antennas are in operation. Training of personnel with access to the antenna would include consideration of the operation mode of the antenna and information on how to prevent radiation exposure, including disabling the communications system. When maintenance of the antenna is required and the radome is removed, the trained technicians will turn off the transmit power before performing work in these areas. In addition, the antennas will be installed at an elevation that is not accessible by the general population on the vessels, and any areas where the limits for uncontrolled environments could be exceeded will be restricted to trained personnel. Therefore, the general population will be protected.

In conclusion, the results show that the antenna, in a controlled environment, and under the proper mitigation procedures, meets the guidelines specified in § 1.1310 of the Regulations. Moreover, the applicant agrees to take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits

ISAT US Inc. FCC Form 312 Exhibit C Response to Question Q28

1. Radiation Hazard Analysis for the antenna manufactured by JRC, model: JUE-60GX

This section analyzes the non-ionizing radiation levels for the JUE-60GX earth station included in this application. The analysis and calculations performed in this Exhibit comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01.

Bulletin No. 65 and the FCC R&O 96-326 specifies two Maximum Permissible Exposure (MPE) limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. These are described below:

- General Population/Uncontrolled environment MPE limit is 1 mW/cm². The General Population / Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less.
- Occupational/Controlled environment MPE limit is 5 mW/cm². The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less.

The analysis provided in this report determined the power flux density levels of the earth station in the 1) far-field, 2) near-field, 3) transition region, 4) region between the feed and main reflector surface, 5) at the main reflector surface, and 6) between the antenna edge and the ground.

Section 1.1 – Detailed calculations

Input Parameter	Value	Units	Symbol	
Antenna Diameter	0.65	m	D	
Antenna Transmit Gain	43.9	dBi	G	
Transmit Frequency	30000	MHz	f	
Antenna Feed Flange Diameter	4	cm	d	
Power Input to the Antenna	5	Watts	P	
Calculated Parameter	Value	Units	Symbol	Formula
Antenna Surface Area	0.3318	m²	A	$\pi D^2/4$
Area of Antenna Flange	12.5660	cm ²	a	$\pi d^2/4$
Antenna Efficiency	0.5887	real	η	$g\lambda^2/(\pi^2D^2)$
Gain Factor	24547.0892	real	g	10^(G/10)
Wavelength	0.0100	m	λ	300/f

Antenna Field Distances				
Calculated Parameter	Value	Units	Symbol	Formula
Near-Field Distance	10.5625	m	Rnf	$D^2/(4\lambda)$
Distance to Far-Field	25.35	m	Rff	$0.6D^2/\lambda$
Distance of Transition Range	10.5625	m	Rt	Rt=Rnf
Power Flux Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	3.5483	mW/cm^2	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	1.5199	mW/cm^2	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	3.5483	mW/cm^2	St	Snf*Rnf/Rt
Power Density at the Feed Flange	1591.5964	mW/cm^2	Sfa	4P/a
Power Density at Main Reflector	6.0273	mW/cm^2	Ssurface	4P/A
Power Density between Reflector and Ground	1.5068	mW/cm^2	Sg	P/A

Section 1.2 – Summary of Results

Region	Calculated	Limit Controlled	Limit Uncontrolled
	Power	Environment	Environment
	Density	$\leq 5 \text{ mW/cm}^2$	$\leq 1 \text{ mW/cm}^2$
	(mW/cm^2)		
Near Field	3.5483	meets limit	exceeds limit
Far Field	1.5199	meets limit	exceeds limit
Transition Region	3.5483	meets limit	exceeds limit
Feed Flange	1591.5964	exceeds limit	exceeds limit
Main Reflector	6.0273	exceeds limit	exceeds limit
Between Reflector and Ground	1.5068	meets limit	exceeds limit

As summarized in the above tables, the JUE-60GX antenna meets the FCC's MPE levels for controlled environments except for at the feed flange and at the main reflector. Since the antenna will be enclosed within a radome, these areas will not be accessible while the antenna is in operation. Training of personnel with access to the antenna would include consideration of the operation mode of the antenna and information on how to prevent radiation exposure, including disabling the communications system. When maintenance of the antenna is required and the radome is removed, the trained technicians will turn off the transmit power before performing work in these areas. In addition, the antenna will be installed at an elevation that is not accessible by the general population on the vessels, and any areas where the limits for uncontrolled environments could be exceeded will be restricted to trained personnel. Therefore, the general population will be protected.

In conclusion, the results show that the JUE-60GX antenna, in a controlled environment, and under the proper mitigation procedures, meets the guidelines specified in § 1.1310 of the Regulations. Moreover,

the applicant agrees to take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits.

2. Radiation Hazard Analysis for the antenna manufactured by Cobham SatCom, model: Sailor 100 GX

This section analyzes the non-ionizing radiation levels for the Sailor 100 GX earth station included in this application. The analysis and calculations performed in this Exhibit comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01.

Bulletin No. 65 and the FCC R&O 96-326 specifies two Maximum Permissible Exposure (MPE) limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. These are described below:

- General Population/Uncontrolled environment MPE limit is 1 mW/cm². The General Population / Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less.
- Occupational/Controlled environment MPE limit is 5 mW/cm². The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less.

The analysis provided in this report determined the power flux density levels of the earth station in the 1) far-field, 2) near-field, 3) transition region, 4) region between the feed and main reflector surface, 5) at the main reflector surface, and 6) between the antenna edge and the ground.

Section 2.1 – Detailed calculations

Input Parameter Antenna Diameter Antenna Transmit Gain Transmit Frequency Antenna Feed Flange Diameter Power Input to the Antenna	Value 1.03 47.2 30000 4 5	Units m dBi MHz Cm Watts	Symbol D G F D	
Calculated Parameter Antenna Surface Area Area of Antenna Flange Antenna Efficiency Gain Factor Wavelength	Value 0.8332 12.566 0.5012 52480.7460 0.0100	Units m² cm² Real Real m	Symbol A A H G	Formula $\pi D^2/4$ $\pi d^2/4$ $g\lambda^2/(\pi^2 D^2)$ $10^{(G/10)}$ $300/f$
Antenna Field Distances Calculated Parameter Near-Field Distance	Value 26.5225	Units m	Symbol Rnf	Formula D²/(4λ)

Distance to Far-Field	63.654	m	Rff	$0.6D^{2}/\lambda$
Distance of Transition Range	26.5225	m	Rt	Rt=Rnf
Power Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	1.2032	mW/cm^2	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	0.5154	mW/cm^2	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	1.2032	mW/cm^2	St	Snf*Rnf/Rt
Power Density at the Feed Flange	1591.5964	mW/cm^2	Sfa	4P/a
Power Density at Main Reflector	2.4004	mW/cm^2	Ssurface	4P/A
Power Density between Reflector and Ground	0.6001	mW/cm²	Sg	P/A

Section 2.2 – Summary of Results

Region	Calculated Power Density (mW/cm ²)	Limit Controlled Environment ≤ 5 mW/cm ²	Limit Uncontrolled Environment ≤ 1 mW/cm ²
Near Field	1.2032	meets limit	exceeds limit
Far Field	0.5154	meets limit	meets limit
Transition Region	1.2032	meets limit	exceeds limit
Feed Flange	1591.5964	exceeds limit	exceeds limit
Main Reflector	2.4004	meets limit	exceeds limit
Between Reflector and Ground	0.6001	meets limit	meets limit

As summarized in the above table, the Sailor 100 GX antenna meets the FCC's MPE levels for controlled environments except for at the feed flange of the antenna. Since the antenna will be enclosed within a radome, the feed flange area will not be accessible while the antenna is in operation. Training of personnel with access to the antenna would include consideration of the operation mode of the antenna and information on how to prevent radiation exposure, including disabling the communications system. When maintenance of the antenna is required and the radome is removed, the trained technicians will turn off the transmit power before performing work in these areas. In addition, the antenna will be installed at an elevation that is not accessible by the general population on the vessels, and any areas where the limits for uncontrolled environments could be exceeded will be restricted to trained personnel. Therefore, the general population will be protected.

In conclusion, the results show that the Sailor 100 GX antenna, in a controlled environment, and under the proper mitigation procedures, meets the guidelines specified in § 1.1310 of the Regulations. Moreover, the applicant agrees to take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits.

ISAT US Inc. FCC Form 312 Exhibit C Response to Question Q28

1. Radiation Hazard Analysis for the antenna manufactured by Intellian, model: GX60

This section analyzes the non-ionizing radiation levels for the Intellian GX60 earth station included in this application. The analysis and calculations performed in this Exhibit comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01.

Bulletin No. 65 and the FCC R&O 96-326 specifies two Maximum Permissible Exposure (MPE) limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. These are described below:

- General Population/Uncontrolled environment MPE limit is 1 mW/cm². The General Population / Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less.
- Occupational/Controlled environment MPE limit is 5 mW/cm². The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less.

The analysis provided in this report determined the power flux density levels of the earth station in the 1) far-field, 2) near-field, 3) transition region, 4) region between the feed and main reflector surface, 5) at the main reflector surface, and 6) between the antenna edge and the ground.

Section 1.1 – Detailed calculations

Input Parameter	Value	Units	Symbol	
Antenna Diameter	0.65	m	D	
Antenna Transmit Gain	43.9	dBi	G	
Transmit Frequency	30000	MHz	f	
Antenna Feed Flange Diameter	4	cm	d	
Power Input to the Antenna	5	Watts	P	
Calculated Parameter	Value	Units	Symbol	Formula
Antenna Surface Area	0.3318	m²	A	$\pi D^2/4$
Area of Antenna Flange	19.2437	cm ²	a	$\pi d^2/4$
Antenna Efficiency	0.5887	real	η	$g\lambda^2/(\pi^2D^2)$
Gain Factor	24547.0892	real	g	10^(G/10)
Wavelength	0.0100	m	λ	300/f

Antenna Field Distances				
Calculated Parameter	Value	Units	Symbol	Formula
Near-Field Distance	10.5625	m	Rnf	$D^2/(4\lambda)$
Distance to Far-Field	25.35	m	Rff	$0.6D^2/\lambda$
Distance of Transition Range	10.5625	m	Rt	Rt=Rnf
Power Flux Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	3.5483	mW/cm^2	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	1.5199	mW/cm ²	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	3.5483	mW/cm ²	St	Snf*Rnf/Rt
Power Density at the Feed Flange	1039.3038	mW/cm ²	Sfa	4P/a
Power Density at Main Reflector	6.0273	mW/cm ²	Ssurface	4P/A
Power Density between Reflector and Ground	1.5068	mW/cm ²	Sg	P/A

Section 1.2 – Summary of Results

Region	Calculated	Limit Controlled	Limit Uncontrolled
	Power	Environment	Environment
	Density	$\leq 5 \text{ mW/cm}^2$	$\leq 1 \text{ mW/cm}^2$
	(mW/cm^2)		
Near Field	3.5483	meets limit	exceeds limit
Far Field	1.5199	meets limit	exceeds limit
Transition Region	3.5483	meets limit	exceeds limit
Feed Flange	1039.3038	exceeds limit	exceeds limit
Main Reflector	6.0273	exceeds limit	exceeds limit
Between Reflector and Ground	1.5068	meets limit	exceeds limit

As summarized in the above tables, the Intellian GX60 antenna meets the FCC's MPE levels for controlled environments except for at the feed flange as well as at the main reflector. Since the antenna will be enclosed within a radome, these areas will not be accessible while the antenna is in operation. Training of personnel with access to the antenna would include consideration of the operation mode of the antenna and information on how to prevent radiation exposure, including disabling the communications system. When maintenance of the antenna is required and the radome is removed, the trained technicians will turn off the transmit power before performing work in these areas. In addition, the antenna will be installed at an elevation that is not accessible by the general population on the vessels, and any areas where the limits for uncontrolled environments could be exceeded will be restricted to trained personnel. Therefore, the general population will be protected.

In conclusion, the results show that the Intellian GX60 antenna, in a controlled environment, and under the proper mitigation procedures, meets the guidelines specified in § 1.1310 of the Regulations.

Moreover, the applicant agrees to take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits.

2. Radiation Hazard Analysis for the antenna manufactured by Intellian, model: GX100

This section analyzes the non-ionizing radiation levels for the Intellian GX100 earth station included in this application. The analysis and calculations performed in this Exhibit comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01.

Bulletin No. 65 and the FCC R&O 96-326 specifies two Maximum Permissible Exposure (MPE) limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. These are described below:

- General Population/Uncontrolled environment MPE limit is 1 mW/cm². The General Population / Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less.
- Occupational/Controlled environment MPE limit is 5 mW/cm². The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less.

The analysis provided in this report determined the power flux density levels of the earth station in the 1) far-field, 2) near-field, 3) transition region, 4) region between the feed and main reflector surface, 5) at the main reflector surface, and 6) between the antenna edge and the ground.

Section 2.1 – Detailed calculations

Input Parameter Antenna Diameter Antenna Transmit Gain Transmit Frequency Antenna Feed Flange Diameter Power Input to the Antenna	Value 1.03 47.6 30000 5.8 5	Units m dBi MHz Cm Watts	Symbol D G F d	
Calculated Parameter Antenna Surface Area Area of Antenna Flange Antenna Efficiency Gain Factor Wavelength	Value 0.8332 26.420 0.5496 57543.9937 0.0100	Units m² cm² Real Real m	Symbol A a η g λ	Formula $\pi D^2/4$ $\pi d^2/4$ $g\lambda^2/(\pi^2D^2)$ $10^{(G/10)}$ $300/f$
Antenna Field Distances Calculated Parameter Near-Field Distance	Value 26.5225	Units m	Symbol Rnf	Formula $D^2/(4\lambda)$

Distance to Far-Field	63.654	m	Rff	$0.6D^{2}/\lambda$
Distance of Transition Range	26.5225	m	Rt	Rt=Rnf
Power Density				
Calculated Parameter	Value	Units	Symbol	Formula
Power Density in the Near Field	1.3193	mW/cm ²	Snf	$16\eta P/(\pi D^2)$
Power Density in the Far Field	0.5651	mW/cm ²	Sff	$gP/(4\pi Rff^2)$
Power Density in the Transition Region	1.3193	mW/cm^2	St	Snf*Rnf/Rt
Power Density at the Feed Flange	757.0018	mW/cm^2	Sfa	4P/a
Power Density at Main Reflector	2.4004	mW/cm^2	Ssurface	4P/A
Power Density between Reflector and Ground	0.6001	mW/cm^2	Sg	P/A

Section 2.2 – Summary of Results

Region	Calculated Power Density (mW/cm²)	Limit Controlled Environment ≤ 5 mW/cm ²	Limit Uncontrolled Environment ≤ 1 mW/cm ²
Near Field	1.3193	meets limit	exceeds limit
Far Field	0.5651	meets limit	meets limit
Transition Region	1.3193	meets limit	exceeds limit
Feed Flange	757.0018	exceeds limit	exceeds limit
Main Reflector	2.4004	meets limit	exceeds limit
Between Reflector and Ground	0.6001	meets limit	meets limit

As summarized in the above table, the Intellian GX100 antenna meets the FCC's MPE levels for controlled environments except for at the feed flange for the antenna. Since the antenna will be enclosed within a radome, the feed flange area will not be accessible while the antenna is in operation. Training of personnel with access to the antenna would include consideration of the operation mode of the antenna and information on how to prevent radiation exposure, including disabling the communications system. When maintenance of the antenna is required and the radome is removed, the trained technicians will turn off the transmit power before performing work in these areas. In addition, the antenna will be installed at an elevation that is not accessible by the general population on the vessels, and any areas where the limits for uncontrolled environments could be exceeded will be restricted to trained personnel. Therefore, the general population will be protected.

In conclusion, the results show that the Intellian GX100 antenna, in a controlled environment, and under the proper mitigation procedures, meets the guidelines specified in § 1.1310 of the Regulations. Moreover, the applicant agrees to take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits.